Input array $A_0 (= A)$

3	0	-4	-5	3	10	20	-13

Output of first round A_1

$\begin{vmatrix} 3 & 3 & -4 & -9 & -2 & 30 & 7 \end{vmatrix}$	3	3	-4	-9		13	30	7
---	---	---	----	----	--	----	----	---

$$\forall i: 0 \leq i < 1: A_1[i] = A_0[i] \\ \forall i: i \geq 1: A_1[i] = A_0[i] + A_0[i-1]$$

Output of second round A_2

3	3 -1	-6	-6	4	28	20
---	------	----	----	---	----	----

$$\forall i: 0 \leq i < 2: A_2[i] = A_1[i] \\ \forall i: i \geq 2: A_2[i] = A_1[i] + A_1[i-2]$$

Output of third round A_3 (= B)

	3	3	-1	-6	-3	7	27	14	
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$$\forall i: 0 \leq i < 4: A_3[i] = A_2[i] \\ \forall i: i \geq 4: A_3[i] = A_2[i] + A_2[i-4]$$